



Surveyor's Office

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Central Oregon Coordinate System Description, Purpose and Parameters

The Central Oregon Coordinate System (COCS) is a mapping projection that covers Deschutes County Oregon and portions of Crook and Jefferson Counties. The Central Oregon Coordinate System is also known as the "C.O. Grid".

A system that has a ground to grid difference of no more than 0.05 feet in 1000 feet in the least populated areas and 0.00 to 0.02 feet in 1000 feet in the major population area.

Purpose:

To help the local surveyor to perform precise survey work.
A continuous coordinate system for all surveys and maps.
In many cases no need to use a ground to grid factor.

Description:

The Central Oregon Coordinate System is based on the following data:

Horizontal:

Datum: NAD 83 (adjustment 1991)
Projection: Transverse Mercator
Zone: Central Oregon LCS
Central Meridian: W 121° 17' 00.00"
Latitude of Origin: N 43° 00' 00.00"
Origin Northing: 0.00 feet
Origin Easting: 3,300,000.00 feet
Scale Along Meridian: 1.0001600
Linear Units: International Foot

Ortho Elevations are NGVD 29.

The C.O. Grid on-line research application web address is:

<http://road.deschutes.org/cogrid/default.aspx>

See next page for Section & Quarter Corner numbering diagram.

Central Oregon Coordinate System Mark Naming System for Section & Quarter Corner

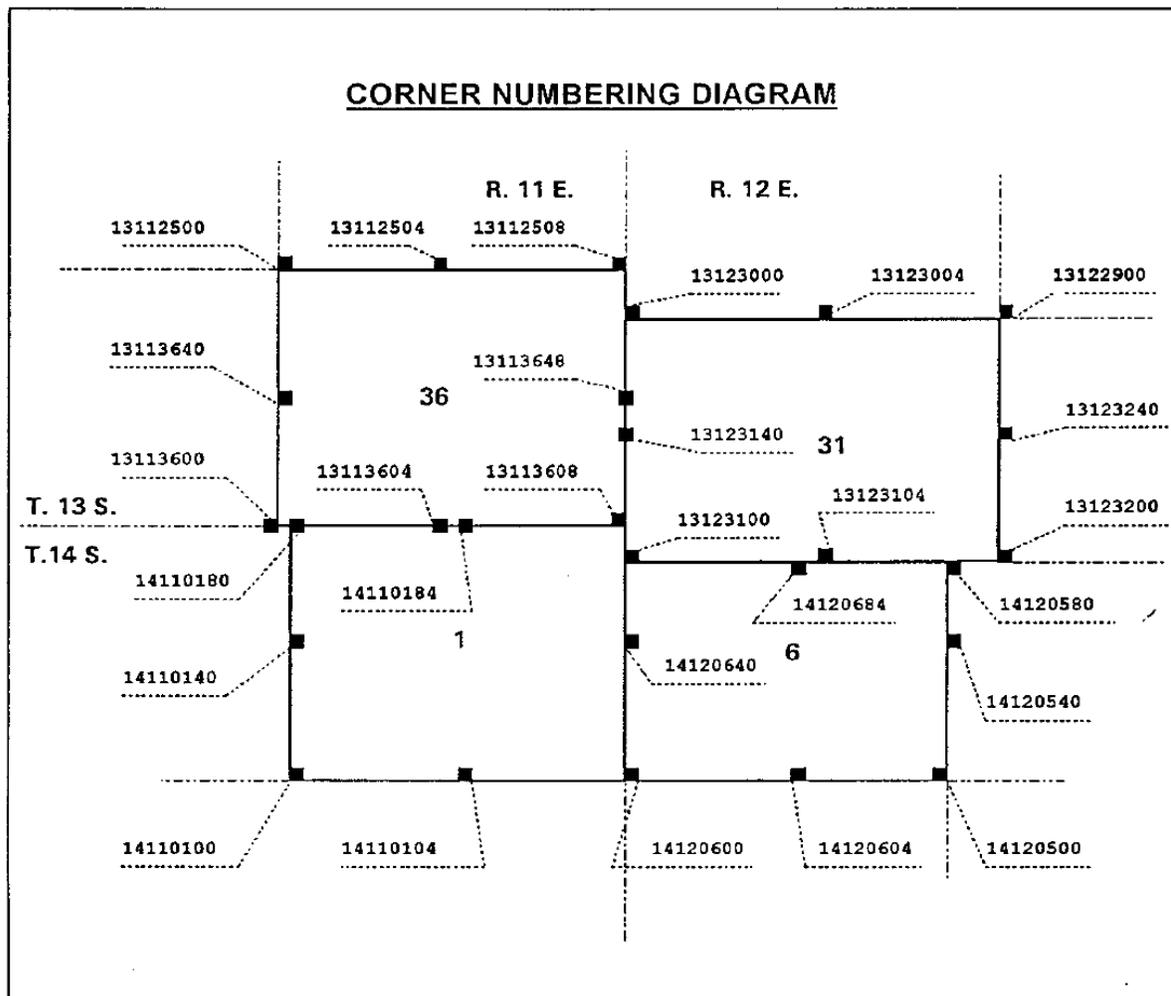
Mark names for PLSS corners are at least 8 digit identifiers. Some will have a 9th place designation such as A or B.

MARK NAME: 17122340A

17 12 23 4 0 A

- 17 Township 17 South of the Willamette Base Line
- 12 Range 12 East of the Willamette Principal Meridian
- 23 Section 23
- 4 4 X 10 chains North from SW. Cor. of Section 23.
- 0 0 X 10 chains East from SW. Cor. of Section 23.
- A (Optional) Indicates more than one important corner in proximity.

Note: The 10 chains is more a fractional part than a distance.
All others marks such as tri-station and bench have Mark Names reflecting the name stamped on the monument or unique to that monument.



SECTION & QUARTER CORNER NAMING CONVENTION